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U.S.P.T.O.

PTO/SB/05 (01-04)

Approved for use through 07/31/2006. OMB 0651-0032
U.S. Patent and Trademark Office. U.S. DEPARTMENT OF COMMERCE

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UTILITY PATENT APPLICATION TRANSMITTAL

(Only for new nonprovisional applications under 37 CFR 1.53(b))

APPLICATION ELEMENTS

See MPEP chapter 600 concerning utility patent application contents.

1. Fee Transmittal Form (e.g., PTO/SB/17)
(Submit an original and a duplicate for fee processing)
2. Applicant claims small entity status.
See 37 CFR 1.27.
3. Specification [Total Pages 37] (preferred arrangement set forth below)
 - Descriptive title of the invention
 - Cross Reference to Related Applications
 - Statement Regarding Fed sponsored R & D
 - Reference to sequence listing, a table, or a computer program listing appendix
 - Background of the Invention
 - Brief Summary of the Invention
 - Brief Description of the Drawings (if filed)
 - Detailed Description
 - Claim(s)
 - Abstract of the Disclosure
4. Drawing(s) (35 U.S.C. 113) [Total Sheets 8]
5. Oath or Declaration [Total Sheets 3]
 - a. Newly executed (original or copy)
 - b. Copy from a prior application (37 CFR 1.63(d)) (for continuation/divisional with Box 18 completed)
 - i. **DELETION OF INVENTOR(S)**
Signed statement attached deleting inventor(s) name in the prior application, see 37 CFR 1.63(d)(2) and 1.33(b).
6. Application Data Sheet. See 37 CFR 1.76

| | |
|------------------------|--|
| Attorney Docket No. | PA 08 0045 |
| First Inventor | Richard C. Younce, et al. |
| Title | ECHO CANCELLER EMPLOYING DUAL-H ARCHITECTURE HAVING SPLIT ADAPTIVE GAIN SETTINGS |
| Express Mail Label No. | ET 75 7951 988 US |

ADDRESS TO:
 Mail Stop Patent Application
 Commissioner for Patents
 P.O. Box 1450
 Alexandria VA 22313-1450

7. CD-ROM or CD-R in duplicate, large table or Computer Program (Appendix)
8. Nucleotide and/or Amino Acid Sequence Submission (if applicable, all necessary)
 - a. Computer Readable Form (CRF)
 - b. Specification Sequence Listing on:
 - i. CD-ROM or CD-R (2 copies); or
 - ii. Paper
 - c. Statements verifying identity of above copies

ACCOMPANYING APPLICATION PARTS

9. Assignment Papers (cover sheet & document(s))
10. 37 CFR 3.73(b) Statement Power of Attorney (when there is an assignee)
11. English Translation Document (if applicable)
12. Information Disclosure Statement (IDS)/PTO-1449 Copies of IDS Citations
13. Preliminary Amendment
14. Return Receipt Postcard (MPEP 503) (Should be specifically itemized)
15. Certified Copy of Priority Document(s) (if foreign priority is claimed)
16. Nonpublication Request under 35 U.S.C. 122 (b)(2)(B)(i). Applicant must attach form PTO/SB/35 or its equivalent.
17. Other: copy of Recorded Assignment.....(4 pages).....

18. If a CONTINUING APPLICATION, check appropriate box, and supply the requisite information below and in the first sentence of the specification following the title, or in an Application Data Sheet under 37 CFR 1.76:

 Continuation Divisional Continuation-in-part (CIP) of prior application No.: 09/834,718.....

Prior application information: Examiner Jefferey F. Harold Art Unit: 2644
 For CONTINUATION OR DIVISIONAL APPS only: The entire disclosure of the prior application, from which an oath or declaration is supplied under Box 5b, is considered a part of the disclosure of the accompanying continuation or divisional application and is hereby incorporated by reference.
 The incorporation can only be relied upon when a portion has been inadvertently omitted from the submitted application parts.

19. CORRESPONDENCE ADDRESS
 Customer Number: Correspondence address below

| | | | | | |
|---------|-----------------------------|-----------|--------------|----------|--------------|
| Name | Cheryl M. Fernandez | | | | |
| Address | Tellabs Operations, Inc. | | | | |
| | 1415 West Diehl Road, MS 16 | | | | |
| City | Naperville | State | Illinois | Zip Code | 60563 |
| Country | United States | Telephone | 630-798-3019 | Fax | 630-798-3231 |

| | | | |
|-------------------|---|-----------------------------------|-------------------|
| Name (Print/Type) | Cheryl M. Fernandez | Registration No. (Attorney/Agent) | 52,611 |
| Signature |  | Date | February 17, 2004 |

This collection of information is required by 37 CFR 1.53(b). The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Mail Stop Patent Application, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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17497 10/779830 U.S.P.T.O.

021704

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FEE TRANSMITTAL

for FY 2004

Effective 10/01/2003. Patent fees are subject to annual revision.

 Applicant claims small entity status. See 37 CFR 1.27

TOTAL AMOUNT OF PAYMENT (\$ 770.00)

Complete if Known

| | |
|----------------------|---------------------------|
| Application Number | To Be Assigned |
| Filing Date | Herewith |
| First Named Inventor | Richard C. Younce, et al. |
| Examiner Name | Jefferey F. Harold |
| Art Unit | 2644 |
| Attorney Docket No. | PA 08 0045 |

METHOD OF PAYMENT (check all that apply)

 Check Credit card Money Order Other None
 Deposit Account:

Deposit Account Number
500-654

Deposit Account Name
Tellabs Operations, Inc.

The Director is authorized to: (check all that apply)

Charge fee(s) indicated below Credit any overpayments

Charge any additional fee(s) or any underpayment of fee(s)

Charge fee(s) indicated below, except for the filing fee to the above-identified deposit account.

FEE CALCULATION

1. BASIC FILING FEE

| Large Entity | Small Entity | Fee Description | Fee Paid |
|---------------|---------------|------------------------|----------|
| Fee Code (\$) | Fee Code (\$) | | |
| 1001 770 | 2001 385 | Utility filing fee | 770.00 |
| 1002 340 | 2002 170 | Design filing fee | |
| 1003 530 | 2003 265 | Plant filing fee | |
| 1004 770 | 2004 385 | Reissue filing fee | |
| 1005 160 | 2005 80 | Provisional filing fee | |
| SUBTOTAL (1) | | (\$ 770.00) | |

2. EXTRA CLAIM FEES FOR UTILITY AND REISSUE

| Total Claims | Independent Claims | Multiple Dependent | Extra Claims | Fee from below | Fee Paid |
|---------------|--------------------|--------------------|--------------|----------------|----------|
| Fee Code (\$) | Fee Code (\$) | | | | |
| 20 | -20** = 0 | | X | | = 0 |
| 3 | - 3** = 0 | | X | | = 0 |
| | | | | | |

| Large Entity | Small Entity | Fee Description |
|---------------|---------------|--|
| Fee Code (\$) | Fee Code (\$) | |
| 1202 18 | 2202 9 | Claims in excess of 20 |
| 1201 86 | 2201 43 | Independent claims in excess of 3 |
| 1203 290 | 2203 145 | Multiple dependent claim, if not paid |
| 1204 86 | 2204 43 | ** Reissue independent claims over original patent |
| 1205 18 | 2205 9 | ** Reissue claims in excess of 20 and over original patent |
| SUBTOTAL (2) | | (\$ 0.00) |

*or number previously paid, if greater; For Reissues, see above

3. ADDITIONAL FEES

Large Entity Small Entity

| Fee Code (\$) | Fee Code (\$) | Fee Description | Fee Paid |
|---------------|---------------|--|----------|
| 1051 130 | 2051 65 | Surcharge - late filing fee or oath | |
| 1052 50 | 2052 25 | Surcharge - late provisional filing fee or cover sheet | |
| 1053 130 | 1053 130 | Non-English specification | |
| 1812 2,520 | 1812 2,520 | For filing a request for ex parte reexamination | |
| 1804 920* | 1804 920* | Requesting publication of SIR prior to Examiner action | |
| 1805 1,840* | 1805 1,840* | Requesting publication of SIR after Examiner action | |
| 1251 110 | 2251 55 | Extension for reply within first month | |
| 1252 420 | 2252 210 | Extension for reply within second month | |
| 1253 950 | 2253 475 | Extension for reply within third month | |
| 1254 1,480 | 2254 740 | Extension for reply within fourth month | |
| 1255 2,010 | 2255 1,005 | Extension for reply within fifth month | |
| 1401 330 | 2401 165 | Notice of Appeal | |
| 1402 330 | 2402 165 | Filing a brief in support of an appeal | |
| 1403 290 | 2403 145 | Request for oral hearing | |
| 1451 1,510 | 1451 1,510 | Petition to institute a public use proceeding | |
| 1452 110 | 2452 55 | Petition to revive - unavoidable | |
| 1453 1,330 | 2453 665 | Petition to revive - unintentional | |
| 1501 1,330 | 2501 665 | Utility issue fee (or reissue) | |
| 1502 480 | 2502 240 | Design issue fee | |
| 1503 640 | 2503 320 | Plant issue fee | |
| 1460 130 | 1460 130 | Petitions to the Commissioner | |
| 1807 50 | 1807 50 | Processing fee under 37 CFR 1.17(q) | |
| 1806 180 | 1806 180 | Submission of Information Disclosure Stmt | |
| 8021 40 | 8021 40 | Recording each patent assignment per property (times number of properties) | |
| 1809 770 | 2809 385 | Filing a submission after final rejection (37 CFR 1.129(a)) | |
| 1810 770 | 2810 385 | For each additional invention to be examined (37 CFR 1.129(b)) | |
| 1801 770 | 2801 385 | Request for Continued Examination (RCE) | |
| 1802 900 | 1802 900 | Request for expedited examination of a design application | |

Other fee (specify) _____

*Reduced by Basic Filing Fee Paid

SUBTOTAL (3) (\$)

SUBMITTED BY

(Complete if applicable)

| | | | | | |
|-------------------|---------------------|-----------------------------------|--------|-----------|-------------------|
| Name (Print/Type) | Cheryl M. Fernandez | Registration No. (Attorney/Agent) | 52,611 | Telephone | 630-798-3019 |
| Signature | Cheryl M. Fernandez | | | Date | February 17, 2004 |

WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.

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If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.



February 17, 2004

Attorney Docket No.: PA 08 0045

Tellabs Operations, Inc.
1415 West Diehl Road
Naperville, IL 60563 U.S.A.
Tel: +1.630.798.8800
Fax: +1.630.798.3231

Commissioner for Patents
P. O. Box 1450
Alexandria, VA 22313-1450

Presented for filing is a continuation patent application of:

Applicants: Richard C. Younce, et al.

Title: ECHO CANCELLER EMPLOYING DUAL-H ARCHITECTURE
HAVING SPLIT ADAPTIVE GAIN SETTINGS

Enclosed are the following papers, including those required to receive a filing date under 37 CFR § 1.53(d):

- a. Utility Patent Application Transmittal including Specification (37 pages) and 8 drawing sheets
- b. Preliminary Amendment (12 pages)
- c. Fee Transmittal for FY 2004 – in duplicate
- d. Copies from prior application of executed Declaration and Power of Attorney
- e. Copy of Recorded Assignment
- f. Certificate of Mailing by "Express Mail"
- g. Express Label No. ET 75 7951 988 US deposited on February 17, 2004
- i. Postage Paid Return Receipt Post Card

Kindly acknowledge receipt of this application by returning the enclosed postcard. Please send all correspondence to:

Cheryl M. Fernandez
Tellabs Operations, Inc.
1415 West Diehl Road, MS 16
Naperville, IL 60563

Respectfully submitted,

Cheryl M. Fernandez
Staff Intellectual Property Attorney

Enclosures

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In the Application of:)
Younce, et al.) Group Art Unit: 2644
Serial No.: To Be Assigned) Examiner: Jefferey F. Harold
Filed: Herewith)
For: ECHO CANCELLER EMPLOYING)
DUAL-H ARCHITECTURE HAVING SPLIT)
ADAPTIVE GAIN SETTINGS)

Commissioner for Patents
P. O. Box 1450
Alexandria, VA 22313-1450

CERTIFICATE OF MAILING BY "EXPRESS MAIL"

Dear Sir:

“Express Mail” Mailing Label Number: ET 75 7951 988 US
Date of Deposit: February 17, 2004
Patent Application of: Richard C. Younce, et al.
Attorney Docket No.: PA 08 0045
Title of Patent Application: ECHO CANCELLER EMPLOYING
DUAL-H ARCHITECTURE HAVING
SPLIT ADAPTIVE GAIN SETTINGS

- Utility Patent Application Transmittal including Specification (Continuation Application) (37 pages and 8 drawing sheets)
- Preliminary Amendment (12 pages)
- Fee Transmittal for FY 2004 – in duplicate
- Copies from prior application of Executed Declaration and Power of Attorney
- Copy of Recorded Assignment (4 pages)
- Certificate of Mailing by “Express Mail”
- Postage Paid Return Receipt Post Card
- Transmittal Letter

I hereby certify that the above-identified and attached papers are being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 C.F.R. §1.10 on the date indicated below, and are addressed to: Commissioner for Patents, P. O. BOX 1450, Alexandria, VA 22313-1450.

Date: 2/17/2004

By:

Cheryl M. Fernandez
Cheryl M. Fernandez